Professional Science Master's in Fisheries and Wildlife Administration Curriculum 2017 - 2018

First and Last Name:		**ID #:**	
Day Phone:		**Email:**	
Internship Mentor (if known):		**Concurrent OSU Degree Program:**	

A total of 45 credits hours are required for the Degree, 23 of these must meet stand alone requirements.

Slash courses (4XX/5XX) are courses that meet at their scheduled time or are linked in Canvas with an undergraduate course. Slash courses do not meet graduate stand alone requirements. An * next to a slash course listing designates the slash only applies to the Corvallis Campus section; Ecampus sections are considered stand alone.

Term Intended to Take	Term Taken & Grade			X = Slash Course	Credits	Term and Campus E = Ecampus C=Corvallis H = Hatfield Marine Science Center (H - may be broadcast to Corvallis)			
						F	W	Sp	Su
Biophysical Sciences Core (20 credit, including at least 1 Quantitative Skills course)					**20**				
		BI/FES/MCB/TOX 535	Genes and Chemicals in Agriculture: Value and Risk	X	3	See schedule of classes			
		BOT 540	Field Methods in Plant Ecology	X	4	See schedule of classes			
		FES 536	Carbon Sequestration in Forests		2	See schedule of classes			
		FES 548	Biology of Invasive Plant		3	See schedule of classes			
		FW 519	The Natural History of Whales and Whaling	X	3	H	E		
		FW 521	Aquatic Biological Invasions	X	4		E		H
		FW 526	Coastal Ecology and Resource Management	X	5	E,H			
		FW 527	Principles of Wildlife Diseases	X	4			E	E
		FW 535	Wildlife in Agricultural Ecosystems	X	3	E	C	E	
		FW/FES 545	Ecological Restoration	X	4	E		C,E	E
		FW 551	Avian Conservation and Management (Corvallis - F '19)		3	E			
		FW/FES 552	Forest Wildlife Habitat Management		4				
		FW 554	Fishery Biology	X	4	C	E		
		FW 556	Limnology	X	5			C,E	
		FW 558	Mammal Conservation and Management	X	4	E	E	C	
		FW 562	Ecosystem Services	X	3			E	
		FW 563	Conservation Biology of Wildlife (Corvallis - W '18, '20)		3		C'18	E	
		FW 564	Marine Conservation Biology	X	3	C,H			
		FW 565	Marine Fisheries	X	4	C,H			
		FW/HSTS 570	Ecology and History: Landscapes of the Columbia Basin	X	3		E		
		FW 573	Fish Ecology and Conservation		4		C	E	
		FW 575	Wildlife Behavior		4	E	E		E
		FW 576	Fish Physiology	X	4			E	
		FW 579	Wetlands and Riparian Ecology (Corvallis - Sp '18, '20)	X*	3	E		C'18,E	
		FW 580	Stream Ecology		3		E		
		FW 581	Wildlife Ecology		3			E	
		FW 597	Aquaculture	X	3	E			
		FW 599	Special Topics in Fisheries and Wildlife	X	2-4	See schedule of classes			
		MNR 530	Tropical Forest Ecology and Management: A Global Perspective		3	See schedule of classes			
		RHP 588	Radioecology	X	3	See schedule of classes			
		SNR 530	Ecological Principles of Sustainable Natural Resources		3	See schedule of classes			
		SNR 540	Global Environmental Change		3	See schedule of classes			
Quantitative Skills in FW Science (2-4 credits)					2-4				
		BEE 511	Global Environmental Change: Using Data to Inform Decisions	X	3	See schedule of classes			
		CH 584	Instruments and Online Interactions in the Sciences		3	See schedule of classes			
		CH 590	Computer Programming for Scientists	X	3	See schedule of classes			
		FES/MNR 522	Research Methods in Social Science	X	4	See schedule of classes			
		FW 524	Introduction to Fisheries Assessment		3			E	
		FW 531	Dynamics of Marine Biological Resources	X	4	See schedule of classes			
		FW 538	Structured Decision Making in Natural Resource Management Lab		2				
		FW 540	Vertebrate Population Dynamics		4	See schedule of classes			
		GEOG 580	Remote Sensing I: Principles and Applications (previously GEO 544)	X	4	See schedule of classes			
		GEOG 560	GIScience I: Intro. To Geographic Information Science (previously GEO 565)		4	See schedule of classes			
		MCB/VMB 671	Molecular Tools		3	See schedule of classes			
		ST 511	Methods of Data Analysis	X	4	See schedule of classes			
Social Sciences Core (12 credits total, 5 credit hours from required list, plus 7 additional credits, with at least one course from Policy and one course from Human Dimensions)					**12**	**F**	**W**	**Sp**	**Su**
Required (5 credits)					5				
		FW 537	Structured Decision Making in Natural Resource Management		2				
		FW 515	Fisheries and Wildlife Law and Policy		3		E	E	
		or FW 620	Ecological Policy		3	E		E	
Policy Courses (3-4 credits)					3 - 4				
		AEC 532	Environmental Law	X	4	See schedule of classes			
		FES/HORT 555	Urban Forest Planning, Policy and Management	X	4	See schedule of classes			
		FW 522	Introduction to Ocean Law	X	3	E			
		GEO 550	Land Use in the American West	X	3	See schedule of classes			
		PS 555	The Politics of Climate Change	X	4	See schedule of classes			
		PS 575	Environmental Politics and Policy	X	4	See schedule of classes			
		PS 576	Science and Politics	X	4	See schedule of classes			
		PS 577	International Environmental Politics and Policy	X	4	See schedule of classes			
		WRP 523	Environmental Water Transactions		3	See schedule of classes			
Human Dimensions Courses (1-5 credits)					1 - 5				
		AEC 534	Environmental and Resource Economics		3	See schedule of classes			

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		AEC 544	Commodity Futures and Options Markets	X	4	See schedule of classes				
		AREC/MRM 552	Marine Economics	X	3	See schedule of classes				
		BI/FES/MCB/TOX 535	Genes and Chemicals in Agriculture: Value and Risk	X	3	See schedule of classes				
		FES 553	Nature-Based Tourism	X	3	See schedule of classes				
		FES 554	Managing at the Wildland-Urban Interface	X	3	See schedule of classes				
		FES 585	Consensus and Natural Resources	X	3	See schedule of classes				
		FES 592	Ecosystem Services Ecology, Sociology, Policy	X	3	See schedule of classes				
		FW 526	Coastal Ecology and Resource Management	X	5	E,H				
		FW 549	History of Fisheries Science		3		E			
		FW 583	Species Recovery Planning and Restoration		3	E				
		GEOG 540	Water Resources Management in the United States (previously GEO 525)	X	3	See schedule of classes				
		GEOG 541	International Water Resources Management (previously GEO 524)	X	3	See schedule of classes				
		PHL 543	World Views and Environmental Values	X	3	See schedule of classes				
		SNR 511	Sustainable Natural Resource Development		1	See schedule of classes				
		SNR 520	Social Aspects of Sustainable Natural Resources		3	See schedule of classes				
		SNR 521	Economics of Sustainable Natural Resource Management		3	See schedule of classes				
		SNR 535	Sustainable Management of Aquatic and Riparian Resources		3	See schedule of classes				
		SNR 540	Global Environmental Change		3	See schedule of classes				
		SOC 580	Environmental Sociology	X	4	See schedule of classes				
		SOC 581	Society and Natural Resources	X	4	See schedule of classes				
		WGSS 540	Women and Natural Resources	X	3	See schedule of classes				
Business, Communication, and Management Skills Core Courses (6 credits)					**6**					
		AG 521	Leadership Development	X	3	See schedule of classes				
		AHE 534	Organizations and Systems Theory		4	See schedule of classes				
		COMM 550	Communication and the Practice of Science		3	See schedule of classes				
		FES 593	Environmental Interpretation	X	4	See schedule of classes				
		FW 514	Professional Development: Meeting Communications		1	E	C,E	E	E	
		PS 579	Topics in Public Policy and Public Administration	X	4	See schedule of classes				
		WR 525	Advanced Scientific and Technical Writing		4	See schedule of classes				
		WRP 521	Water Conflict Management and Transformation		3	See schedule of classes				
Ethics (1-3 credits)					**1 - 3**					
		GRAD 520	Responsible Conduct of Research		1	See schedule of classes				
		PHL 540	Environmental Ethics	X	3	See schedule of classes				
		PHL 547	Research Ethics		3	See schedule of classes				
		SNR 522	Basic Belief and Ethics in Natural Resources		3	See schedule of classes				
Internship (6 credits, one course)					**6**					
		FW 510	Professional Internship		1 - 16	E	E	C,E	E	
		or FW 506	Projects		1 - 6	C,E	C,E	C,E	C,E	
Total Credits: Choose your final course(s) from any of the above sections.					**45**					
Classes are subject to change at anytime: check the online schedule of classes for updates.										

Additional background courses									
These courses are approved for financial aid for Professional Science Masters in Fisheries and Wildlife Administration students but will not count toward a certificate degree. These courses are intended to help students prepare for grad level courses.						**F**	**W**	**Sp**	**Su**
		BI 370	Ecology		3	C,E	C,E	C,E	E
		FW 315	Ichthyology		3	C,E	E	E	E
		FW 320	Introductory Population Dynamics		4	E	C,E	E	E
		MTH 245	Mathematics for Management, Life and Social Sciences		4	C,E	C,E	C,E	C,E

If you plan to take a Leave of Absence or change your program of study, please contact the Graduate Certificate Program Coordinator and resubmit this form.

Please review each of the following program requirements:

- A total of 45 credit hours are required for the degree, 23 of these must meet the stand alone requirement.
- Students must enroll for a minimum of three credits each term (except Summer term). Students may request a Leave of Absence for terms in which they do not intend to enroll. Please contact the Graduate Program Coordinator if you intend to take a Leave of Absence.
- All work toward this degree must be completed within seven (7) years. This includes transfer credits, all course work, all examinations, and capstone project.
- A maximum of 6 credits graduate credits may be transferred toward a certificate. All transfer courses listed on the previous pages must be approved by the Program Director and meet one of the following definitions:
  - o Graduate courses taken at OSU while enrolled as a non-degree student, or
  - o Graduate courses taken at OSU while enrolled as a post baccalaureate student, or
  - o Graduate courses taken at OSU and reserved for graduate credit while enrolled as an undergraduate student, or
  - o Graduate courses taken at OSU and reserved for graduate credit while enrolled as a post baccalaureate student, or
  - o Graduate courses taken at other accredited universities after receiving a baccalaureate degree.
- None of the courses listed on this program will be completed with grades of S. I understand that such courses cannot be used in a graduate program.
- None of the courses listed on this program will be completed with letter grades below C (2.00).
- Transfer courses must be earned with grades of B or better and cannot have been used to fulfill requirements for another master's degree. Courses that are graded on a nonstandard basis, such as pass/no pass (P/N), credit/not credit, and satisfactory/unsatisfactory (S/U) cannot be used for transfer credit.